2/11 RA Bill

S/3/2=000030/24-25/16/8/24

3/2=000030/24-25/16/8/24

012-22-000005

D2

M. A. R. 57 (Rule 116) No. E

Measurement Book

634716

Serial No. .....

Name of work Annual Maintenance of Street light package in W-12. 02. In. Shetty. hall. Surrounding From 01.07.2024 To 31.07.2024

Name of Contractor of nature of Agency M/S. CHIKKANNA.G (CHETHAN ELECTRICALS).

Date of commencement of work EE/Ele/DZ/TEND/SAG/II/02/2023-24 Dt: 15.03.2024

~~EE/Ele/DZ/TEND/SWO.ft..1.02/2023-24~~ Dt: 15.03.2024.

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	1. Operation & maintenance of Streetlight system including replacement of damaged / failed / fused out components like lamps, tubes chokes, Igniters, Capacitors, Switches, wires, Holders, Starters & switching ON/OFF of Street lights at specified timing & pole numbering, Preparing ward wise, Street wise data bases furnishing maintenance reports, every day etc, complete so as to ensure efficient burning of Street lights detailed in tender document for various type of Street lighting Systems as detailed below 36/40W fluorescent tube light Street lighting System.						
		20 NOS	×	RS. 57.12	× 1 month =	1142.40	

05

Assistant Engineer (Ele)
Bruhath Bengaluru Mahanagara Palike

ASST. EXECUTIVE ENGINEER (Ele)
Bruhath Bengalore Mahanagara Palike
Dasarahalli Zone, Bangalore

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
2.	Operation & Maintenance of Street lighting System including replacement of damaged / failed / defective / fused components like lamps, tubes, starters, ignitors, capacitors, Stores, wires, Holders, Starters, and Switching ON/OFF of Street lights at Specified timing and Pole numbering, Preparing ward wise, Street wise data books - furnishing maintenance reports, every day etc, complete so as to ensure effected burning of Street lights detailed in tender documents for various type of Street lighting systems as detailed below 125W HPMV parks lighting system						
		68 Nos	x Rs. 63.00	x 1 Month	=	4285.80.	
3.	Operation & Maintenance of Street lighting System including replacement of damaged / failed / defective components like lamps, tubes, chokes, ignitors, capacitors, Stores, wires, Holders, Starters & Switching ON/OFF of Street lights at Specified timing & pole numbering, Preparing						

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Dasarahalli Zone, Bangalore

M. A. R. 57 (Rule 116) No. E

Measurement Book

Serial No. 684717

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	ward wise, Street wise data books furnishing maintenance Reports every day etc, complete so as to ensure effected burning of Street lights detailed in tender documents for various type of Street lighting systems as detailed below poles office 250W HPSV Street lighting System.						
		1804 Nos	x Rs. 54.95	x 1 month	=	1,99,145.80.	
4.	Operations & Maintenance of Street lighting System including replacement of damaged / failed / defective components like lamps, tubes, Chokes, Ignitors, capacitors, Stores, wires, Holders, Starters & Switching ON/OF of Street light at Specified timing & pole numbering, furnishing maintenance reports every day etc, complete so as to ensure effective burning of Street lights detailed in tender documents						

EE (Ele)
EE (Ele)
DZ

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	for various type of Street lighting Systems as detailed below 400 watts HPSV Street light / High mast lighting Systems.	139 NO's x Rs. 93.17 x 1				=	12298.44.
5.	Operation & Maintenance of LED Street lighting System including replacement of damaged / failed / fuse of ~~d~~ set components like LED drivers, MCPCB, Surge protective device Switches, wires, Holders, Starter Observing weather proofing technic Confirming to IP 65 Standards and Switching ON/OFF of Street lights data bank, furnishing maintenance reports, every day etc, complete So as to ensure efficient burning of Street lights detailed in tender documents for ~~24~~ watt to 40 watt LED park/Street lighting Systems.	5 NOs x Rs. 73.33 x			1	=	366.65

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Mahanagara Palike

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Bruhath Bangalore Mahanagara Palike

M. A. R. 57 (Rule 116) No. E
Measurement Book

Serial No. .....
634718

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
6.	Operation & Maintenance of LED Street lighting System including replacement of damaged / failed / fuse of ~~d~~ set components like LED drivers, MCPCB, Surge protective device Switches, wires, Holders, Starter Observing weather proofing technic Confirming to IP 65 Standards and, Switching ON/Off of Street lights at Specified timing and pole numbering, Preparing ward wise, Street wise Street light data bank, furnishing maintenance reports, everyday etc, complete So as to ensure efficient burning of Street lights detailed in tender documents for 40 watt to 65 watt LED Street light lighting System.	182 NO's x Rs. 95.61 x 1				=	17401.02.

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
7.	Operations & Maintenance of LED Street lighting System including replacement of damaged / failed / faseedaved components like LED drivers, MCPCB, Surge protective device, Switches, coils, Holders, Starter Observing weather proofing technic Confirming to IP 65 standards and Switching ON/Off of Street lights at specified timing and pole numbering preparing wardwise, Streetwise Street light data banks, furnishing maintenance reports, every day etc, Complete so as to ensure efficient burning of Street lights detailed in tender documents for new LED Street light lighting System.	55 Nos	x Rs. 114.80	x 1	=	6314,00	
8.	Operations & Maintenance of LED Street lighting System including replacement of damaged / failed / fused out components like LED drivers, MCPCB, Surge protective						

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M. A. R. 57 (Rule 116) No. E
Measurement Book

634719

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measdrement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	device, Switches, coils, Holders, Starter Observing weather proofing technic confirming to IP 65 standards and Switching ON/Off of Street lights at specified timing and pole numbering, preparing wardwise, Streetwise Street light data bank, furnishing maintenance reports, every day etc, Complete so as to ensure efficient burning of Street lights detailed in tender documents for 110 W LED Street light lighting System.	0	x	0		=	0.

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
9.	Operation & Maintenance of LED Smart Lighting System including replacement of damaged/failed/fused out components like LED drivers, MCPCB, Surge protective device Switches, wires, Holders, Starter observing weather proofing technic Confirming to IP65 Standards and Switching ON/OFF of Street lights at specified timing & pole number wise, Ward wise, Street wise Street light Bank, furnishing of maintenance reports, every day etc, complete so as to ensure efficient burning of Street light detailed in tender documents for 150/180 watt LED Street light high mast lighting System.					-	CO.
10.	Supply & Installation / fixing / Provision of out door type thermoplastic moulded panel enclosure with transparent polycarbonate lid Shock proof, IP65 rust proof, dust proof, water proof, corrossion proof						

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M. A. R. 57 (Rule 116) **No. E** 634720

Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	having internally Embedded gasket on both lid & flap Suitable to fix Single ϕ / 3ϕ Energy meter on Suitable base plate & having a provision for Fuse / MCB cut out with Suitable transparent hinged flap opening for operating MCB along with complete tamper proof SEALING Facility 300mm x 450mm x 214mm.	5 NO's	x Rs. 5127	=			25635.00.
11.	Supply and fixing of 4 pooles power contactors with NO/NC contacts on Existing wood / panel board using necessary fixing materials & complete with AC-3 duty IS 13947 100 to 125 AMPS.	15 NO's	x Rs. 7200	=			1080000.00.

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
12.	Supplying & fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials & 'C' type curve indicator ON/OFF Energy cross-3 with short ckt breaking capacity of 10kA and complete wiring as required conforming to IEC 60898 50-63 Amps SP.	16 NO'S	x Rs. 723			=	11568.00
13.	Supplying & fixing microprocessor based Astronomical time switch with using necessary bolts, nuts & washers.	18 NO'S	x Rs. 4030			=	72540.00
14.	wiring for lighting/power ckt using one of FRLS PVC insulated 1100V grade, multistranded, copper wire with low conductor resistance Single core in open or concealed						

Assistant Engineer (Ele)

ASST. EXECUTIVE ENGINEER (Ele)

M. A. R. 57 (Rule 116) No. E

Measurement Book

634721

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	System of wiring with specified IS:694 conforming to latest amendments 6 Sqmm.	10 NO'S	x Rs 70		=	700.00.	
15.	Supplying tinned copper legs & crimping & wiring to terminal pt for wire of the following sizes 6 Sqmm.	100 NO'S	x Rs. 7		=	700.00.	
					Total	=	201853.65
①	12.1% CST deduction						② 24822.44
							177631.25
②	18.1% CST Add						③ 31973.62
							209604.85

ASST. EXECUTIVE ENGINEER (Ele) Bruhath Bangalore Mahanagara Palike

Assistant Engineer (Ele) Dasarahalli Zone, Bangalore

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	③ total amount on item 10 to 15						219143.00
	④ 18% GST on item no 10 to 15						39445.74
							468193.59
	⑤ Fine imposed for the non buying of steel regrets for the period of 01.07.2021 to 31.07.2021 of Lift time violation Penalty for the present bill						500.00
							4192.50
	⑥ 2% will be deducted as monthly maintenance bill against the released Scrap material					Grand total	463501.09

Assistant Engineer (Ele)
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Dasarahalli Zone, Bengaluru

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Dasarahalli Zone, Bangalore

M. A. R. 57 (Rule 116) No. E 631722
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

Audited and admitted for Rs. 4,68,193
Passed by Cheque for Rs. 4,44,501
(Four lakh forty four thousand five hundred one only)
by adjustment Rs. 23692

Accounts Superintendent
Exe. Engineer (Ele)
B.B.M.P. Dasarahalli Division

Audited and admitted for Rs. 4,68,193
Passed by Cheque for Rs. 4,44,497.5
(Four lakh forty four thousand four ninety seven)
by adjustment Rs. 23696

Accounts Superintendent
Asst. Engineer (Ele)
B.B.M.P. Dasarahalli Division

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